Written by a pioneering leader in the development of vitreoretinal surgical
techniques and instruments, Vitreous Microsurgery is a comprehensive
how-to guide to all vitreoretinal procedures.

This thoroughly updated fifth edition describes many new techniques and
refinements of established procedures. More than 170 three-dimensional
full-color illustrations—many by the Charles Retina Institute’s resident medical
artist, Byron Wood—enable surgeons to clearly visualize the techniques.

This edition has new chapters on the Constellation vitrectomy system, uveitis,
retinal complications of permanent keratoprosthesis, and anti-VEGF therapy. All
illustrations have been updated, the majority to a 25-gauge approach instead of
20-gauge, and many new illustrations have been added. Many techniques and
parameters unique to 25-gauge sutureless vitrectomy are discussed in detail. The
retinopathy of prematurity chapter was completely rewritten to address new
examination procedures, laser guidelines, anti-VEGF therapy, and changing, more
conservative indications for surgery. The section on anesthesia for vitreoretinal
surgery was completely rewritten in collaboration with Gary Fanning and Jay
Mattingly, leading experts on this subject from an anesthesiologist’s perspective.

The focus of the text is on the decision making process a surgeon goes through in
evaluating the best course of treatment for his/her patient undergoing vitreous
surgery. The book describes in detail clinically proven methods of managing the
anterior and posterior segment vitreous surgery patient in a systematic manner.
The text is organized in a building block approach with general methodology
preceding its application to specific disease states. The book stresses algorithms
for intra-operative decision making, relying on knowledge of physical principles
and performed in the order of ascending risk.